

ROZHOK, I., podpolkovnik; BELYSHEV, V., mayor; KASPEROVICH, I., gvardii
general-mayor; NESTRUGIN, I., gvardii mayor;
RYZHONOK, B., gvardii mayor

Training of radiomen should be equal to the new demands; a
discussion of the article published in no. 10, 1963. Voen.
vest. 43 no.5:100-102 My '64. (MIRA 17:6)

KHSTESTA, MUDr, reditel kojeneckych ustavu, Sumperk

Current problem of the centers for premature infants: pneumocystosis.
Prakt. lek., Praha 34 no.17:392-394 5 Sept 54.

(PNEUMONIA, in infant and child
interstitial, plasma, cell. Pneumocystis carinii in
newborn, prev. & control)

(PROTOZOA

Pneumocystis carinii pneumonia, interstitial plasma
cell in premature inf., prev. & control)

NESTRIZHENKO, T.I.

Scheme for the remote measurement of electrical parameters of transformer substation lines. Vest.sviazi 14 no.3:27-28 Mr '54. (MLRA 7:5)

1. Nachal'nik tsentral'noy apparatnoy Khar'kovskoy DRTS.
(Electric substations)

NESTRENKO, A. P.

NESTRENKO, A. P.- "Axonometric Projection of Conic Sections and of Second Degree Surfaces."
Min of Higher Education USSR, Leningrad Order of Labor Red Banner Technological Inst
imeni Lensovet, Chair of Descriptive Geometry, Novosibirsk, 1955 (Dissertations For
Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis' No. 26, June 1955, Moscow

NESTRELYAYEV, L.S.

Voluntary office of technological information in a machine
shop. Mashinostroitel' no.11:44 '65.

(MIRA 18:11)

NESTRAKHOV, A.S. (Moskva)

Absorption of gamma rays in a layer of solid fuel during
a gasification process. Izv. AN SSSR. Energ. i transp
no.2:266-269 Apr-'64. (MIRA 12-64)

NESTRAKHOV, A. S., VINOGRADOV, Yu.G.

X-ray examination of slag-removing devices in gas generators.
Gas.prom. 5 no.4:13-18 Ap '60. (MIRA 13:8)
(Gas producers)
(X rays--industrial applications)

NESTOYANOVA, O.A.; KOREN', T.N.

New finds of Ludlow graptolites in the Southern Urals. Dozl.
AN SSSR 151 no.2:407-410 J1 '63. (MIRA 18-7)

1. Predstavleno akademikom D.V.Nalivkin/m.
(Ural Mountains---Graptolites)

NESTOYANOVA, O.A.; PASTUKHOV, I.P.

Age of the ore-bearing formations of the Uchaly and 19th Party
Congress pyrite deposits. Mat.VSEGEI.Ob.ser. no.28:167-169 '60.
(MIRA 14:6)
(Ural Mountains--Pyrites)

NESTOYANOVA, O.A.

Devonian paleogeography of the eastern slope of the Southern Urals.
Mat.VSEGEI.Ob.ser. no.28:101-110 '60. (MIRA 14:6)
(Ural Mountains--Paleogeography)

NESTOYANOVA, O.A.

Devonian and Silurian stratigraphy of the Magnitogorsk synclinore.
Sov.geol. 2 no.11:16-28 Ja '60. (MIRA 13:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.
(Ural Mountains--Geology, Stratigraphic)

NESTOYANOVA, O.A.

Basic characteristics of the stratigraphy, tectonics, and
volcanic activity of the green rock complex in the Uchaly
ore-bearing region (eastern slope of the Southern Urals).
Mat. po geol. i pol. iskop. IUzh. Urala no.2:55-75 '60.
(MIRA 14:3)

(Ural Mountains--Geology)

NESTOYANOVA, O. A. Cand. Geolog-Mineralog Sci.

Dissertation: "Geological Structure and Minerals of the Uchalinskiy and Abzelilovskiy Rayons (Eastern Slope of South Ural)." All-Union Sci. Res. Inst. Of Mineral Raw Materials. 16 Apr 47.

SO: Vechernyaya Moskva, Apr 1947. (Project #17836)

Country : Poland H-17
 Title :
 Author : Nestoruk-Szlompek, D.; Smolenski, J.
 Institution :
 Title : Method of Purifying Barium Sulfate Utilized in
 X-Ray Diagnosis, and Increasing Its Capacity
 of Forming Stable Suspensions in Water.
 Orig. Pub. : Acta polon. pharmac., 1958, 15, No 1, 51-57

Abstract : Study of the conditions of precipitation of BaSO_4 (effect of precipitating agent, BaCl_2 concentration, precipitation temperature, pH of medium) with the view of obtaining pure, finely dispersed precipitate that forms stable suspensions. A slowly settling precipitate is obtained on interaction of concentrated reactants in neutral medium at 20° . It was found that on prolonged heating of BaSO_4 precipitated in the cold, with its mother liquor or with water, its capacity of forming stable suspensions is enhanced.
 Ya. Shteynberg.

Card:

NESTOROVSKI, I.

Geology of the region of Lazaropolje and Debar (Western Macedonia).
Bul sc Youg 9 no.1/2:31-32 F-Ap '64.

1. Faculty of Natural Sciences and Mathematics, University of
Skopje, Skopje.

~~APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700024-6~~

[illegible]

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

RESEARCH DESIGN

Trial	Control (n = 10)	MCI (n = 10)	AD (n = 10)
1	90	80	60
2	90	75	55
3	90	70	50
4	90	65	45
5	90	60	40

1992

CHIEF

SUB CODE: ZC, GO

1993

1. Author: Association

8/0108/8/019/010/0071/0070

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2. Title: Symposium, I. I.

3. Abstract: International scientific-technological conference, on the occasion

4. Source: Radioelektronika, v. 19, no. 10, 1966, 77-78

5. Index: Communication conference

Abstract: The conference, sponsored by the Leningrad Regional Board of the Scientific Engineering, Radioengineering, and Electrical Communication Community in A. S. Popov, was held in Leningrad on 13 to 15 April 1966. It was attended by 300 participants from various industrial, scientific, teaching, and other organizations from all over the country. L. Ye. BYKHOVSKIY gave the Outline of the Main Directions on Development for the 1966-1970 period in the Scientific-Technological Industries of Leningradskiy Sovetskoy. The present article contains an extensive summary of this paper. The conference proceedings were carried out in 13 sections which heard and evaluated 100 papers.

6. Annotation: none

7. Page: 1/2

The influence of optical density and of

S/077/63/008/001/003/003
A066/A126

linear function of the optical density ΔD up to $\Delta D = 0.045$, but above this value linearity is disturbed. Maximum sensitivity of the photocell to small variations in the luminous flux is reached within the linear section. Under normal pressures (linear section of I versus n) the absorption curves of the silver chloride emulsions exhibited a normal shape with fine structure. Application of higher pressures does not affect the general course of the absorption curve, but its fine structure vanishes. There are 6 figures. ✓

ASSOCIATION: Nauchno-issledovatel'skiy institut fiziki Odesskogo gosudarstvennogo universiteta im. I.I. Mechnikova (Scientific Research Institute of Physics of Odessa State University imeni I.I. Mechnikov)

SUBMITTED: June 1, 1962

Card 2/2

S/077/63/008/001/003/003
A066/A126

AUTHORS: Kirillov, Ye.A., Nesterovskaya, Ye.A., Gol'denberg, A.B.

TITLE: The influence of optical density and of a luminous flux incident on a photocell upon the spectral dependence of the absorption curve of silver halides

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, v. 8, no. 1, 1963, 47 - 50

TEXT: The influence exerted by the optical density of the object under consideration and by the load of the photometer on a photocell was studied from measurements of $I = I_1 - I_2$, where I_1 is the intensity of the light passing through the reference part of the emulsion, and I_2 is the intensity of the light passing through the part under examination. The experimental arrangement included a Zeiss monochromator and a Hartmann-Braun galvanometer. The preparations used for the purpose were fine-grained silver chloride emulsions. Conclusions: $\Delta I / \Delta n$ as a function of the galvanometer deflection n shows a horizontal section (maximum value), for which the contrast is a maximum, too. $\Delta I / \Delta D$ is a

Card 1/2

NESTEROVSKAYA, Ye.A.; NECHAYEVA, T.A.

Problem of the absorption spectrum of photochemically dyed silver halides in connection with the nature of the centers formed in them. Zhur.nauch.i prikl.fot.i kin. 7 no.4:252-256 J1-Ag '62.
(MIRA 15:8)

1. Nauchno-issledovatel'skiy institut fiziki Gosudarstvennogo universiteta imeni I.I.Mechnikova, Odessa.
(Photographic emulsions) (Silver halides--Spectra)

NESTOROVICH, N.M. (Rostov-na-Donu)

Descriptive geometry of Lobachevskii's space. Uch.zap.Kaz.un.
115 no.10:16-17 '55. (MLRA 10:5)
(Geometry, Descriptive)

CHERNYAYEV, M.P.; NESTOROVICH, N.M.; LYAPIN, N.M.

Dmitrii Dmitrievich Mordukhai-Boltovskoi, 1876-1952. *Usp. mat. nauk.* 8 no.
4:131-139 Ji-Ag '53. (MLRA 6:8)
(Mordukhai-Boltovskii, Dmitrii Dmitrievich, 1876-1952)
(Mathematics--Bibliography) (Bibliography--Mathematics)

AID 708 - X

Geometricheskiye postroyeniya v ploskosti Lobachevskogo

of Geometrical Construction in Lobachevskiy's Plane,
122-173. Answers, notes and references, 174-304.

No. of References: Total 63, Russian 47 (1827-1949)

Facilities: None

3/3

AID 708 - X

Geometricheskiye postroyeniya v ploskosti Lobachevskogo

TEXT DATA

Coverage: This book is a summary of scientific research in the theory of geometrical construction in Lobachevskiy's plane from 1826 to the present time. Most of this research was conducted during the last 25 years, and was done mainly in the U.S.S.R where V. F. Kagan, D. D. Mordukhay-Boltovskiy, N. M. Nesterovich, A. S. Smogorzhevskiy, S. Luk'yanchenko and others were prominent. In the text of this book 423 problems are considered, most of which were constructed by N. M. Nesterovich.

Table of Contents

The book consists of an introduction and two parts: Part I, Calculating Problems of Lobachevskiy's Geometry; Part II, Construction Problems of Lobachevskiy's Geometry. Part I is divided into two chapters: Chapter I, Problems on Proving Theorems, 42-49; Chapter II, Various Formulas from Lobachevskiy's Geometry, 50-66. Part II is divided into three chapters: Chapter I, Fundamental Problems on Construction, 67-99; Chapter II, Methods of Solution of Geometrical Problems on Construction, 100-121; Chapter III, Critical Investigation

NESTOROVICH, N.M.

PHASE X TREASURE ISLAND BIBLIOGRAPHICAL REPORT AID 708 - X

Call No.: AF485328

BOOK

Author: NESTOROVICH, N. M.

Full Title: GEOMETRICAL CONSTRUCTION IN THE PLANE OF
LOBACHEVSKIY

Transliterated Title: Geometricheskiye postroyeniya v
ploskosti Lobachevskogo

PUBLISHING DATA

Originating Agency: None

Publishing House: State Publishing House of Technical and
Theoretical Literature

Date: 1951

No. pp.: 304

No. of copies: 5,000

Editorial Staff

Contributors: Professors D. D. Mordukhay-Boltouskiy,
V. F. Kagan, S. P. Finikov and N. F. Chetverukhin

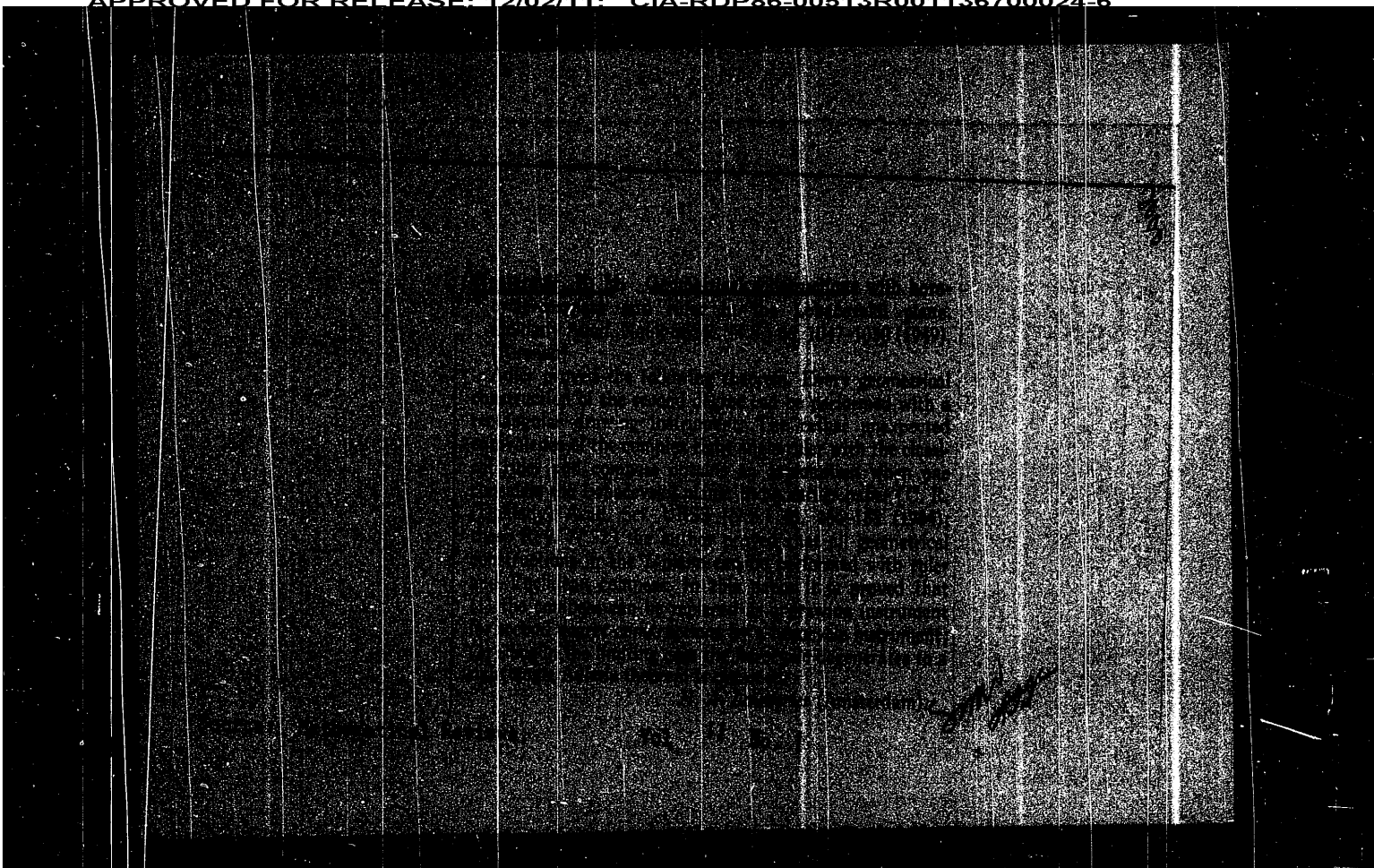
PURPOSE AND EVALUATION: This book is not a text book for university students. It is rather intended for young scientists to provide topics for research work in the field of higher geometry. For this purpose it is perhaps the first successful treatment, not only in Russian Scientific Literature, but in the world.

NESTOROVICH, N. M.

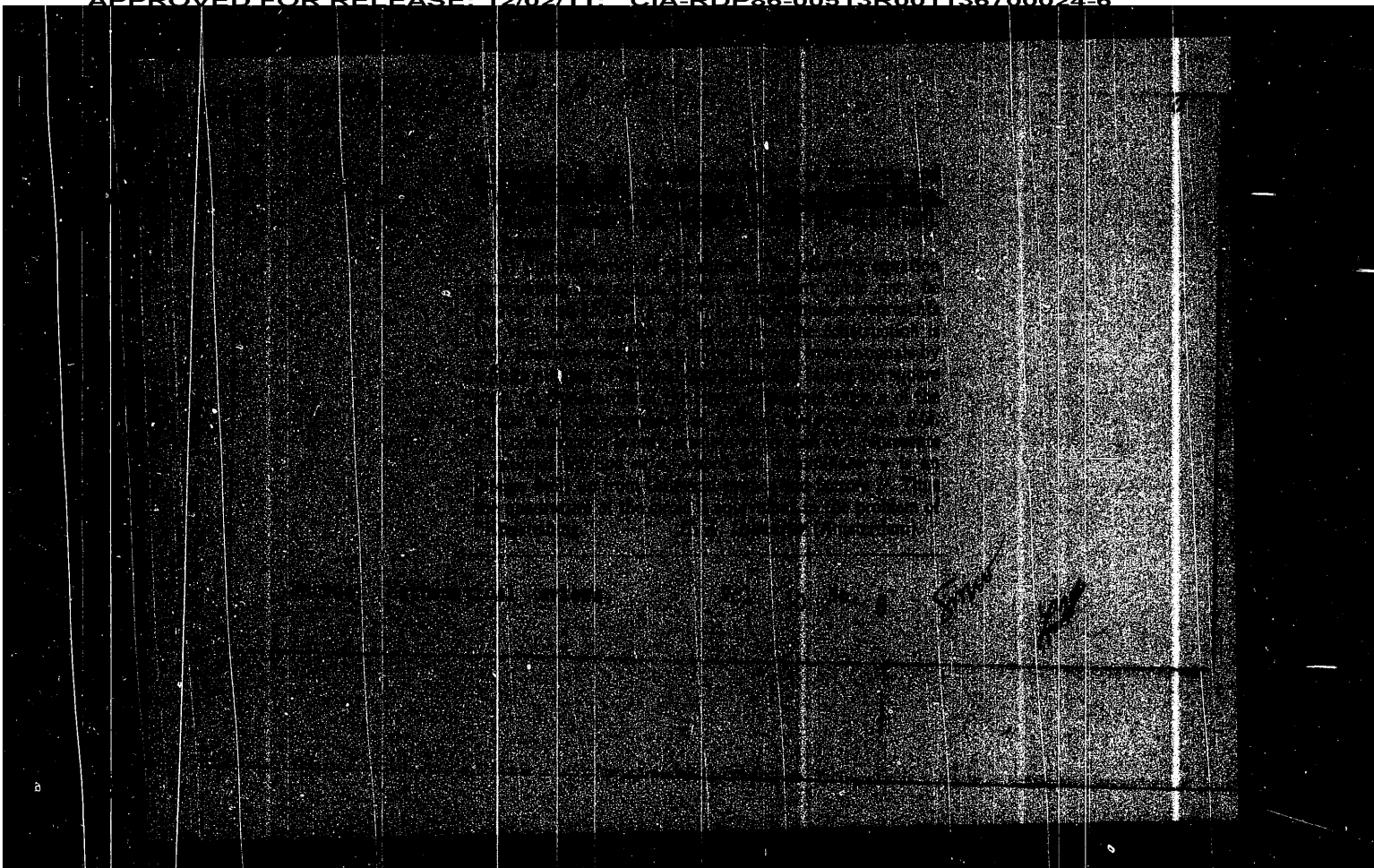
"Equivalence of the Hypercircle to an Ordinary Circle in
Constructions in the Lobachevskiy Space," Dokl. AN SSSR, 69, No.6, 1949

Rostov-on-Don State University im. V. M. Molotov

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NESTEROVICH, N. M.

"On the Constructive Force of a Complex - E - by the Plan of Lobachevskiy,"
Dokl. AN SSSR, 43, No.5, 1944

Molotov University, Rostov-on-Don

NESTOROVICH, N. M.

"Concerning Equivalence with Regard to the Construction of the Complex MB
and of Complex E," Dokl. AN SSSR, 22, No.5, 1939

Inst. Math. and Physics., Rostov-on-Don

NESTEROVICH, N.M. Continued

O dvoynikakh kosougol'nogo i pryamougol'nogo treugol'nikov na ploskosti Lobachevskogo. Rostov n/D, Uchen. zap. NII matem. i fiz. un-ta, 1 (1937), 64-65.

O figuraz-dvoynikakh v prostranstve Lobachevskogo i prilozhenii ikh k resheniyu geometricheskikh zadach na postroyeniye.

Rostov n/D, Uchen. zap. NII matem. i fiz. un-ta, 3 (1939), 93-125.

Geometricheskiye postroyeniya v prostranstve Lobachevskogo. Rostov n/D, Uchen. zap. NII matem. i fiz. un-ta, 4 (1940), 41-65.

SO: Mathematics in the USSR, 1917-1947

edited by Kurosh, A.G.,

Markushevich, A.I.,

Rashevskiy, P.K.

Moscow-Leningrad, 1948

RISSIC, Milosav; PENDIC, Smilja; BANICEVIC, Bozidar; NESTOROVIC, Nadezda.

Clearance of bromsulphalein and colloidal radiogold in liver
function tests. Srpski arh. celok. lek. 93 no.2:121-130 P ' 65.

1. Interna klinika A Medicinskog fakulteta Univerziteta u Beogradu
(Upravnik: prof. dr. Brantislav Stancijevic); Radioloski institut
Medicinskog fakulteta Univerziteta u Beogradu (Upravnik: prof. dr.
Bogoljub Bosnjakovic).

NESTOROVICH, N.D., kandidat biologicheskikh nauk.

Phenological observations on woody plants introduced into the
White Russian S.S.R. and their seed-gathering periods. Sbor.
nauch.trud.Inst.biol.AN BSSR no.1:87-96 '50. (MLRA 9:1)

(White Russia--Trees) (White Russia--Shrubs)

PENDIC, S.; MERKAS, Z.; BEKERUS, M.; NESTOROVIC, N.

Quantitative studies on erythropoiesis in malignant diseases irradiated by therapeutic doses of ionizing radiations. Prim. radioaktiv.izotop. 2 no.3:36-44 D '61.

1. Radioloski Institut Medicinskog fakulteta u Beogradu Upravnik
Prof. Dr. B. Bosnjakovic.
(CHROMIUMISOTOPES) (ERYTHROCYTES) (RADIOTHERAPY)
(NEOPLASMS) (HEMATOPOIESIS)

NESTOROVIC, Miroslav, ing., associate prof. (Beograd, Obilicev
Venac 22/IV)

Methods for measuring the characteristic values of motor
vehicles in motion. Tehnika Jug 17 no.4:625-627 Ap '62.

1. Department of Mechanical Engineering of the University
of Belgrade, Belgrade.

NESTOROVIC, M.

Fuel requirements of modern vehicles. p. 1489

TEHNIKA, Beograd, Vol 10, No. 19, 1955

SO: EEAL, Vol 5, No. 7, July 1956

NESTOROVIC, M.

Piston mechanism with oscillatoryrotational motion of the
piston. p. 23

ZBORNIK RADOVA, Beograd, No. 30. 1954

SO: EEAL, Vol. 5, No. 7 July 1956

1956-1957, p.

1956-1957, p. Survey of the border construction in Serbia, 1945-1955, p. 101.

Vol. 11, No. 11, 1956.

TIGRIS

TIGRIS

Belgrad, Yugoslavia

See: East European Commission, Vol. 6, No. 2, February 1957

NESTOROVA, M. D.

LASHKO, N. F. and NESTEROVA, M.D.

C.A. Vol. 46 77 d

Stable and metastable phases in chromium and molybdenum steels with medium carbon content. Izvest. Akad. S.S.S.R., Ser. Fiz. 15, 67-71 (1951).

Examn. of samples of steel contg. 0.30-0.41% C, 0.08-21.30% Cr, or 0.35-4.13% Mo shows that at Cr contents below 1.5% only $(Fe, Cr)_3C$ is formed. At higher content trigonal $(CrFe)_7C_3$ and cubic $(CrFe)_{23}C_6$ are formed. A phase diagram in % Cr vs annealing time is given. A first metastable cementite phase is transformed into a 2nd metastable γ -phase which can be transformed into the unstable trigonal or the stable cubic carbides. A similar diagram is shown for the Fe-Mo system and it is shown that beyond 0.35% Mo content Mo_2C appears together with cementite. A γ -phase is also formed, as well as binary carbides Fe_nMo_mC .

NESTOROVA, Milka

Exemplary methodological development of lessons. Biol i Khim 4
no.5:19-24 '61.

(Teaching)

SOV/35-59-9-6965

Translation from: Referativnyy zhurnal, Astronomiya i Geodesiya, 1959, Nr 9, p 13 (USSR)

AUTHORS: Prodan, Yu.I., Nestorov, V.V.

TITLE: On Determining the Scale of a Turn of the Screw of an Ocular Micrometer in the ZT-180 Zenith-Telescope

PERIODICAL: Astron. tsirkulyar, 1958, July 3, Nr 193, pp 17 - 19

ABSTRACT: The observations of wide reference pairs with the aid of new Soviet ZT-180 zenith-telescopes make it possible to decrease by several times the effect of the errors of the catalogue declination of stars on the scale of one turn of the micrometer being determined. The authors have compiled a program of similar wide pairs, selected from the Catalogue of geodetic stars. This program is recommended, according to the observations of 50 pairs, carried out in May 1958, with the GAISH zenith-telescope, the scale of the turn of the micrometer was found to be equal to $21''.88149 \pm 0''.00011$, the error for one observation being $\pm 0''.0008$. The authors support Ye.P. Fedorov's suggestion on the possibility of using the ZTL-180 telescope to derive corrections for the declinations of the Kimura and Batterman pairs which are adopted for the determination of the scale of the turn by the International Latitude Service. G.A.M.

Card 1/1

✓

VASILEV, V., inzh.; NESTOROV, P., inzh.

Damages and restoration of small dams. *Khidrotekh i melior* " no.2:66-70 '62.

NESTOROV, Nikola; MADZHAROV, Ivany; ANDREEV, Andrei

Effect of the placenta tissue preparation on the feeding of
pigs. Izv Zhivotn nauki i no. 3:44-54 '64.

1. Vasil Kolarov Higher Agricultural Institute, Plovdiv, and
Institute of Animal Husbandry, Kestimbrod.

NESTOROV, N.; BANKOV, N.

Influence of synthetic estrogens on the structure of gonads
and the level of serum proteins in chickens. Izv Inst morf
BAN 9/10:97-105 '64.

NESTOROV, H.

"Mines in the Capitalist Countries are Prisons for Workers", I. 50,
(MIRNO DELO, Vol. 9, No. 8, Aug 1954, Sofia, Bulgaria).

CO: Monthly List of East European Accessions, (ETAL), 10, Vol. 4,
No. 1, Jan. 1955, Uncl.

NESTOROV, N.

"Mining Industry in the Soviet Union", P. 61, (MIRNOE DZLO, Vol. 8,
No. 8, Aug 1954, Sofiya, Bulgaria)

SC: Monthly List of East European Accessions, (EVAL), LC, Vol. 4, No. 1,
Jan. 1955, Incl.

NESTOROV, N.

"Operating the Mine Machinery in the Georgi Dimitrov line from a Distance", P. 48, (TRAMO DELC, Vol. 9, No. 2, Aug. 1954, Sofia, Bulgaria)

SC: Monthly List of East European Accessions, (EEM), LC, Vol. 4, No. 1, Jan. 1955, Uncl.

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700024-6

NESTOROV, N.
"Contributions to studies of the morphology of the sexual and ovarian cycle of sheep"(p. 1)
GODISHNIK
Plovdiv Vol 5 1949/50 (published 1951)

SO: East European Accessions List Vol 2 No 7 Aug 1954

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

with single electron capture resulting in the \bullet cationic state C_6H_5^+ and H_2 molecule.¹¹

p. 22 (1960-1961, vol. 1), p. 1, 1961, vol. 1, 1961-1962

Monthly Index of U.S. Import Receipts, 1913=100, 1914-1918
September 1918

NESTOROV, N.

"New system for protection from electric current in the shafts of the
Temelko Nenkov State Mining Enterprise."

p. 12 (Ratsionalizatsiia) Vol. 7, no. 8, Aug. 1957
Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

NESTOROV, N.

COUNTRY : BULGARIA
 CATEGORY : Farm Animals.
 Cattle.
 ABS. JOUR. : ZHSEL., No. 6, 1959, No. 25826
 AUTHOR : Kumanov, Stefan; Ivanov, Nicho; Nestorov,*
 INST. : -
 TITLE : The Possibility of Increasing Milk Yields and
 the Milk's Fat Content in Cows.
 ORIG. PUB. : Selsko-stop. mis'l, 1957, 2, No 10, 622-629
 ABSTRACT : A review is presented which uses Soviet as
 well as Bulgarian experiences. The signifi-
 cance of such factors is stressed as the quan-
 tity and quality of fodder which increase milk
 yields and the percentage of fat, as well as
 the presence of such elements in feeds as Ca,
 P, K, S, Cl, Na, Mg, Fe, I, Cu, Mn, Co, and
 others, of vitamins A, C, D, and E, the pre-
 sence of various enzymes which are imperative
 for the synthesis of fat and vegetotropic sub-

CARD:

1/2

*Nikola

NOVEMBER, 1975.

Abstract. The following is a summary of the information
contained in the report of the U.S. Air Force, dated
October 1975, on the subject of the U.S. Air Force.

SO: The following is a summary of the information
contained in the report of the U.S. Air Force, dated
October 1975, on the subject of the U.S. Air Force.

WATSON, W.

Remote and Automatic Control of Mining Facilities. Mine Jour (Minerals),
#5:20: Sept-Oct 55

NEUMOROV, N.

Protection from Power Current through Non-grounded Zero-Current
Transformers. Minno Belo (Lening), //2:33:40:11

NESTROW, R.

Power Supply for the "Donbas" Combine (Combined Coal Cutter-Loader)
in the LPP "G. Dimitroff" Mine, Minno Delo (Mining), #1:20:Jan 11

NESTOROV, Kiril, inzh.

Graphs for the dimensioning of gravity dams. Khidrotekh i melior
7 no.1:15-17 '62.

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700024-6

NESTOROV, Kiril

Stilling box and its application in dams. Khidrotex i melior 6
no.6:176-177 '61.

NESTOROV, K.

International short-wave radio competitions. p. 12 RADIO.
(Ministerstvo na poshtite, telegrafite, telefonite i radioto i
Tsentralniia suvet na dobrovlnata organizatsiia za subeistvie
na otbranata) Sofiya. Vol. 5, No. 4, 1956.

Source: EEAL LC Vol. 5, No. 11 Nov. 1956

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700024-6

NECHAYEV, EV.

The Purpose of Scientific-technical Standardization and Labor Payment
on Mining Enterprises. *Kislo Delo (Mining)*, #4:53: Jul-Sep 55

L 20893-66

ACC NR: AT5028972

zones of the lowland towards its central regions. At the same time it has been established that paleotectonic conditions greatly affect the properties of reservoirs in Neocomian deposits. The thickest, highly permeable sand beds overlay arches of large consedigenous uplifts. A map of supposed oil and gas reserves on the West Siberian platform has been prepared, based on the results of an analysis of the data available on facial characteristics of rocks, hydrogeology, reservoir properties, geochemistry, distribution of the already known oil and gas fields and shows, etc. The central and northern regions of the lowland are the most promising areas. The data available indicate that the West Siberian lowland is one of the world's new oil and gas provinces. Orig. art. has: 3 figures. [Author's abstract.]

SUB CODE: 03/ SUBM DATE: 21Nov64/

Card 4/4

ULR

1 20893-66

ACC NR: AT5028972

regions of the lowland, where these sandstones directly overlie the basement rocks and are up to 100 meters thick, 16 gas fields and 3 oil fields have been discovered. 3) The Kulomsino suite represented mainly by Valanginian clay rocks, passing in the northwest into the Alyaska suite of Valanginian-Hauterivian age. In the central regions of the lowland numerous oil shows and two oil fields have been revealed in the sandstones of the upper part of this formation. There are essentially sandstone deposits of the Tara (Upper Valanginian-Lower Hauterivian) and Varta (Hauterivian-Barremian) suites further up, which are the main productive formations in the central and northern regions of the lowland. Three oil fields and two gas fields, including large ones, have been discovered there. In the overlying Cretaceous, Paleogene, and Neogene sandy-clay deposits no oil or gas field is known. In the Okhteurevsk area a subcommercial gas spout has been obtained from Senonian sandstones. Oil and gas shows in Cretaceous deposits have been observed in a number of wells. Geochemical investigations have shown that the content of organic carbon and bitumen increases from marginal zones toward the centre of the lowland in all productive strata of Jurassic and Lower Cretaceous age. The degree of bitumen reduction rises, and the degree of oil hypergenesis decreases in the same direction. The degree of mineralization and metamorphism of underground waters also rises from the marginal zones to the center of the lowland. A deviation from normal is observed in the Surgut district, where the degree of mineralization of Jurassic and Lower Cretaceous waters is reduced, and Neocomian oils have undergone considerable cryptohypergenesis. A study of oil and gas reservoirs in Jurassic and Lower Cretaceous deposits has shown deterioration of their properties from the marginal

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L 20893-66

ACC NR: AT5028972

the most promising oil- and gas-bearing formation. Within the West Siberian lowland two areas with different modes of mantle deposit occurrence are distinguished: the outer, with the basement lying at a depth of 2000 meters or less, and the inner, from 2000 to 4000—5000 meters deep. The outer area is characterized by nose-type highs sinking towards the center of the platform. The inner area is characterized by domination of closed structures. A great number of local elevations complicating larger structures is observed within both areas. All of them are very gentle (angle of flanks from 1° to 3°), with the base protrusion high in the core, noticeably flattening out or passing into structural noses or monoclines in the upper horizons of the mantle. Rhythmical alternation of thick, mainly sand-silt series with essentially clay series is characteristic of the mantle deposits. Almost all Jurassic and Lower Cretaceous sand-silt series are regionally petroliferous. In the section the following stratigraphic units are distinguished through productive deposits: 1) The Zavadoukovski clay-silt-sand series of Early-Middle Jurassic partly of Callovian age, up to 1500 meters thick, characterized by a great diversity of facies including continental deposits of various types—littoral, and, less frequently, marine deposits. Numerous small oil inflows and gas outbursts of short duration were obtained from sandstones of the Zavadoukovski series in the central part of the platform. The small Unst-Silga gas condensate field in the northern part of the Tomsk region is confined to this series. 2) The Maryanovka suite of black highly bituminous argillites, up to 100 meters thick, of Late Jurassic, partly Valanginian-Hauterivian age. Its base consists of a series of basal sandstones unpersistent in the strike, with numerous oil and gas shows. In the western Ural

Card 2/3

1 20892-66 EWT(1) GS/GW
ACC NR: AT5028972

SOURCE CODE: UR/0000/64/000/000/0244/0259

AUTHOR: Gurari, F. G.; Mironov, Yu. K.; Nesterov, I. I.; Rovnin, L. I.; Rostovtsev, N. N.; Rudkevich, M. Ya.; Erv'ye, Yu. G.

ORG: none

TITLE: Oil and gas deposits of the west Siberian lowland

SOURCE: International Geological Congress. 22d, New Delhi, 1964. Geologiya nefti (Petroleum geology). Moscow, Izd-vo "Nauka," 1964, 244-259

TOPIC TAGS: geology, physical geology, natural gas, petroleum, fuel, seismology

ABSTRACT: The West Siberian lowland is a gigantic intraplateform depression of about 3.4 million square kilometers. There are two structural stages in its basement. The lower (first) stage is built up of folded structure consolidated in different ages—from Archean to Hercynian. The upper (second) stage is composed of slightly dislocated parageosynclinal Early Mesozoic and Paleozoic deposits which fill up intermontane depressions and form undulated nappes. The cover of the platform is constructed of thick (up to 4000--5000 meters) series of Meso-Cenozoic sandy-clay rocks. In the rocks of the second tectonic stage of the basement numerous oil and gas shows are known, but structural complexity and the great depths at which oil and gas occur make prospecting very difficult. It is usually done together with studies of oil and gas deposits in the platform mantle, which is considered to be

Card 1/4

L 07137-67 EWT(1)/FCC CW

ACC NR: AF7001036

SOURCE CODE: UR/0203/65/005/005/0835/0842

AUTHOR: Nestorov, G.

ORG: Geophysical Institute, BAN

TITLE: Effective coefficient of recombination in lower ionosphere

SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 5, 1965, 835-842

TOPIC TAGS: ionosphere, atmospheric recombination

ABSTRACT: An analysis has been made of the total equation for the effective coefficient of recombination in the lower ionosphere. An expression has been derived for determination of changes of the coefficient of dissociative recombination as a function of temperature and solar zenith angle. It is shown that the temporal changes of the factor of negative ions exert an appreciable influence on the value, especially in the lower part of the D region. For heights greater than 80-85 km dissociative recombination is decisive. The results are compared with other similar data in the literature. Orig. art. has: 4 figures and 15 formulas.

[JPRS]

SUB CODE: 04 / SUBM DATE: 24Apr65 / ORIG REF: 006 / OTH REF: 027

Card

1/1

0924 00 44

L 46613-66 ENT(1)/TSC

ACC NO: AP6024744

SOURCE CODE: BU/0011/65/018/010/0919/0922

AUTHOR: Nestorov, G.ORG: Geophysical Institute, BAN

TITLE: Meteorological influence on the electron production, electron density, and absorption within the D layer 12

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 10, 1965, 919-922

TOPIC TAGS: ionosphere, ionospheric electron density, ionospheric absorption, solar x radiation, atmospheric ionization, meteorology

ABSTRACT: Solar X-rays ionize all components of air, and such an ionization leads to the emission of secondary electrons and protons which, in turn, can cause further ionization processes. Because of such a peculiar cascade mechanism, the ionizing action of X-rays is extremely high. The author establishes expressions for the ionization intensity and shows that even for constant energy influx the ion production at a given height is considerably affected by meteorological parameters in agreement with the fundamental propositions of static and dynamic meteorology. The theoretical profiles are found to be in good agreement with data in literature (J. S. Belrose, M. J. Burke, J. Geophys. Res., 69, 1964, No 13, 2799). Theoretical curves describing the ion density and radiation absorption at moderate latitudes and average solar activity during various seasons of the year are also given. This paper was presented by Academician L. Krastanov on 27 May 1965. Orig. art. has: 4 figures and 5 formulas. [Orig. art. in German] [TPRS: 34,964]

SUB CODE: 04 / SUBM DATE: none / ORIG REF: 002 / SOV REF: 003 / OTH REF: 013

Card 1/1 EJS

0915

2575

L 46613-66 FCC

ACC NR: AP6026274

SOURCE CODE: BU/0011/65/018/007/0631/0631

AUTHOR: Nestorov, G.

ORG: Geophysical Institute, BAN

TITLE: Minimum necessary electron density required for the wave reflection from the ionospheric D-region

SOURCE: Bulgarska akademiya na naukito. Doklady, v. 18, no. 7, 1965, 631-634

TOPIC TAGS: ionospheric electron density, ionosphere, electromagnetic wave reflection, successive approximation

ABSTRACT: Using the results of the magneto-ionic theory by Ya. L. Al'pert (Rasprostraneniye radiovoln [Propagation of radio waves], M., 1960), the author derives various approximate expressions for the complex ionospheric index of refraction suitable for the calculation of reflection of medium and long wave electromagnetic radiations from the ionospheric D-region. These expressions are used for the establishment of a formula for the minimum necessary electron density of total internal wave reflections. The author presents also a diagram for the fast determination of the reflection altitude following the method of successive approximation if the density profile of the D-region is known. This paper was presented by Academician L. Krastanov on 24 March 1965. Orig. art. has: 1 figure and 7 formulas. [Orig. art. in German.] /JPRS: 33,542/

SUB CODE: 04 / SUBM DATE: none / ORIG REF: 002 / SOV REF: 001 / OTH REF: 001

Card 1/1

mjs

L 35307-66 FCC GW

ACC NR: AP6026869

SOURCE CODE: BU/0011/65/018/012/1111/1114

AUTHOR: Nestorov, G.; Velinov, P.

ORG: Geophysical Institute, BAN

TITLE: Variations in electron density during long-wave reflections from the D-region

SOURCE: BAN. Doklady, v. 18, no. 12, 1965, 1111-1114

TOPIC TAGS: electron density, electromagnetic wave reflection, ionosphere, signal frequency, signal propagation

ABSTRACT: One of the authors derived earlier an expression (G. Nestorov, Compt. rend. Acad. bulg. Sci., 18, 1965, no. 7, 631) for the minimum electron density N_m needed to produce a reflection of electromagnetic waves from the ionospheric D-region during oblique incidence. The present paper outlines the actual calculations of the variations in time of the quantity N_m (assumed earlier to be a constant) at the point of reflection of a signal of given frequency and propagation direction. Results are summarized in the form of graphs and a table. This paper was presented by Academician L. Krastanov on 2 September 1965. Orig. art. has: 2 figures, 11 formulas and 1 table. [JPRS: 36,457]

SUB CODE: 20, 04, 09 / SUBM DATE: 02Sep65 / ORIG REF: 006 / OTH REF: 002

Card 1/1

L 34512-66 EWT(1)/EGC
ACC NO: AP6024745

SOURCE CODE: BU/0011/65/018/010/0923/0926

AUTHOR: Nestorov, G.; Tzfradsieva, B.

ORG: Geophysical Institute, BAN

TITLE: Displacement velocity of the D zone at various daily conditions

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 10, 1965, 923-926

TOPIC TAGS: ionosphere, reflected signal, propagation velocity, ionospheric electron density

ABSTRACT: In numerous cases of ionospheric investigations one needs to know the rate at which the reflection point of a signal of given frequency is being lowered due to the shifts in the D zone. This lowering of the reflection level is clearly accompanied with an increase in the minimum necessary electron density needed for the reflection of the signal. The authors established the necessary equations for the rate of lowering of the reflection point and carried out a semiempirical numerical evaluation of its velocity for moderate geographic latitudes. Results are presented in the form of diagrams which may be used for the solution of various practical problems related to the D ionospheric region. This paper was presented by Academician L. Krastanov on 15 June 1965. Orig. art. has: 2 figures and 4 formulas. [Orig. art. in German.]
JPRS: 34,964

SUB CODE: 04, 2 / SUBM DATE: none / ORIG REF: 008 / SOV REF: 001
OTH REF: 003

L 1956-66

ACCESSION NR: AP5023345

quasilongitudinal wave of small or middle wavelength is propagated when the signal frequency is very great compared with the frequency of electron collision with atmospheric molecules. In this case the electron density N is equal to $1.24 \cdot 10^4 f$, where f is the ionospheric frequency. 3) Longwave propagation takes place when the signal frequency is very small compared with the plasma frequency. This case is very important for ionospheric investigations during solar chromospheric eruptions. Orig. art. has: 1 figure and 8 formulas. [EG]

ASSOCIATION: Geophysikalisches Institut der Bulgarischen Akademie der Wissenschaften
(Institute of Geophysics of the Bulgarian Academy of Sciences)

SUBMITTED: 24Mar65

ENCL: 00

SUB CODE: ES

NO REF SOV: 001

OTHER: 003

ATD PRESS: 4090

Card 2/2

L 1956-66 EWT(d)/FCC/EWA(h) GW
ACCESSION NR: AP5023345

BU/0011/65/018/007/0631/0634
451/462

AUTHOR: Nestorov, G.

TITLE: The lowest electronic density necessary for wave reflection from the
ionospheric D-layer

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 7, 1965, 631-634

TOPIC TAGS: electromagnetic wave, ionospheric D layer, ionospheric refraction index, electron density, signal frequency, plasma gyrofrequency, electron collision, solar chromospheric eruption

ABSTRACT: In the daytime electromagnetic long and middle waves are reflected from the upper and the middle part of the ionospheric D-layer. A theoretical formula for the ionospheric refraction index is given, which may be transformed according to the physical state of the ionosphere. An electromagnetic wave may be totally reflected in the D-layer, and then the electron density may be determined from the theoretical formula containing the acting signal frequency and the gyrofrequency of the plasma electrons. The following cases of wave propagation are analyzed in the original article: 1) a quasilongitudinal wave is propagated when the plasma frequency is equal to zero or very small compared with the signal frequency. 2) A

Card 1/2

L 20445-66 FCC/EWA(h)

ACC NR: AP6012042

SOURCE CODE: BU/0011/65/018/003/0215/

AUTHOR: Nestorov, G.

ORG: Institute of Geophysics, BAN

TITLE: Winter anomalies in short-wave absorption

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 3, 1965, 215-217

TOPIC TAGS: radio wave absorption, E layer, ionosphere

ABSTRACT:

Numerous hypotheses were advanced in the past (see, e.g., R. Morris, Proc. Phys. Soc., 75, 1960, No 6, 937; M. Flisel, Geom. i aeron., 3, 1963, no. 4, 703) for the explanation of the winter anomalies in short-wave absorption. The most prevalent view assumed an additional appearance of sporadic strata below the E-layer. However, in his earlier communication (Compt. rend. Acad. bulg. Sci., 17, 1964, No 10) the author noted that there exists a strong seasonal dependence of the altitude z_D of the lower limit of the D region (for same zenith distances of the sun, it has a maximum in the summer and minimum in winter). The causes for such a behavior are not clear yet; however, there exists (as shown in the article) a large correlation between the changes in z_D and the short-wave absorption and, consequently, the variations in z_D may well be one of the main reasons for the existence of the above-mentioned anomaly. This paper was presented by Academician L. Krastanov on 2 October 1964. Orig. art. has: 1 figure and 3 formulas. [JPRS]

SUB CODE: 04, 20 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 008 / SOV REF: 001

Card 1/1

LAUTER, Ye.A.; KIBULADVA, A.; NESTROV, G.; SUSHINGAR, K.

Space and time variations of ionospheric absorption in the long-wave range at low solar altitudes and their night hours. Geomag. i aer. 5 no.6:1044-1045 N-D 1965.

(R115 141)

1. Observatoriya ionosfernykh issledovaniy v Gudangbong, Germaniyskaya Demokraticeskaya Respublika. Submitted Apr. 2, 1965.

1. Abstract
 INFORMATION NO. 1550121

Abstract of the Russian. The overall electron amount shows a maximum around the level of the origin and has 3 graphs and 2 formulas.

Abstracted from: Geophysikalisches Institut der Bulgarischen Akademie der Wissenschaften
 (Geophysical Institute, Bulgarian Academy of Sciences)

ABSTRACTED BY:

LEVEL: 00

SUB CODE: ES

ORIGIN: 01

OTHER: 007

JPRS

REF ID: A6621207
 80/001/04/017/002/1091/1093
 41
 40
 13

THE EQUIVALENT RECOMBINATION COEFFICIENT AND THE OVERALL AMOUNT OF ELECTRONS IN THE IONOSPHERIC D-REGION

POPOVA, D. G. *Doklady Akad. Nauk SSSR*, v. 17, no. 12, 1964, 1091-1093

INDEXED: recombination coefficient, ionospheric electron density, ionospheric D-region

ABSTRACT: The equivalent electron density (N_e) of the D-region exhibits diurnal variations (see, e.g., A. Gerasimov, G. Mantarov, *Compt. rend. Acad. Sci. USSR*, 1963, No. 12). However, the displacement of the electron density maximum does not exceed 1.5 km. The author also found from the nondeviative ordinary and extraordinary wave paths (May 1964) that the diurnal course of N_e is quite close to the curve of the ordinary Chapman layer. These two circumstances were sufficient to enable the author to use with satisfactory accuracy the standard recombination-type ionization balance equation and derive an expression for the diurnal course of the equivalent recombination coefficient. It yields results which do not contradict the recent data on the effective recombination

L 12770-66

ACC NR: AP6002748

tion in nighttime absorption has the form of a double curve with maxima in summer and winter, and minima immediately following the equinoxes. The injection of high-energy particles into the lower ionosphere during and following magnetic storms strongly increases absorption in the long-wave region, especially at χ between -10 and $+10^\circ$, and at night. In these cases, the frequency at a geomagnetic latitude of 55° depends on the solar activity cycle, while penetration of high-energy particles below 50° is extremely rare. Orig. art. has: 12 figures and 1 table.

SUB CODE: 17,04 SUBM DATE: 28Apr65/ OTH REF: 014/ ATD PRESS: 4/84 [14]

Card

212

HW

L 12770-66 EWT(1)/FCC GW
ACC NR: AP6002748 (N) SOURCE CODE: UR/0203/65/005/006/1034/1045
AUTHOR: Lauter, Ye. A.; Khruskova, Yu.; Nestorov, G.; Shprenger, K.
ORG: Ionospheric Research Observatory, Kühlungsborn, GDR (Observatori- 31
ya ionosfernykh issledovaniy) B
TITLE: Variations in ionospheric absorption with respect to time and
space in the long-wave region when the sun is low and at night
SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 6, 1965, 1034-1045
TOPIC TAGS: ionospheric absorption, ionospheric radio wave, solar ac-
tivity
ABSTRACT: The authors give the results of measurements made over sever-
al years by the atmospheric probe method in the long-wave region on
lines up to 350 km long in Middle and Eastern Europe. The frequency re-
lationship is given for midnight absorption in the long, medium-long
and medium wavelength regions with a maximum of about 17 db at 200 to
400 kc. The diurnal variation in ionospheric absorption in the long-wave
region when the sun is low and at night shows that absolutely nocturnal
conditions prevail at solar zenith angles $\chi > 100^\circ$, while the photodisso-
ciation process takes place at values of χ to -9° . The annual varia-

1. Introduction

2. Results and the possible structural changes in the lower boundary during the
course of the test. Originals: 5 graphs.

3. Discussion. Geophysikalisches Institut der Kaiserlichen Akademie der
Wissenschaften (Geophysikalisches Institut, Berlin (Academy of Sciences))

4. Summary

ENCLOSURE

SUB CODE: ES, AA

5. References

OTHER: 011

JPRS

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00/0001/6/017/001/1009/1012

10-1012
434

3.2. Expansion of the ionospheric D region during X-ray containing solar flares

История СССР, 1944, 1009-1012

100-443887-100

Analysis of the data well established at the present time that only solar flare events with wavelengths between 1-10 m are capable of reaching the ionospheric D region (see, for example, J. Abo and Terr. Phys., 20, 1962, 191). The solar flares are able to generate high electron densities (A. P. Mitra, R. E. Jones, and J. Abo, Terr. Phys., 20, 1962, 183) the resultant long-wave radio signal can be extremely suitable for the study of the ionization state of the lower part of the E-region. The present paper reports on the continuous registration of the signal of the 154 m field intensity over a 1720 km transmitter-receiver distance. More than 100 similar field intensities (MFI) have been registered by the method of the data above a changing seasonal dependence of the MFI over the period. These may be explained by the special positions of the

~~APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700024-6~~

NE STOROV, G.

Height of the instrument: 1.50 m
HAN 17 no.101861-35. 1000

1. Submitted May 14, 1966

NESTOROV, G.

Reflection capacity of the nocturnal E-layer over the eastern
Mediterranean region. Doklady RAN 17 no. 4: 704-706, 1964.

1. Vorgelegt von Akademikernmitglied L. Krustanov [Krustanov, L.].

TRIFUNOVA, I.; NEMTSOVA, A.; ...

Some characteristics of ...
meteor trails. Doklady Akad. Nauk SSSR ...

1. Predstavleno dokl. na ...

POLOZOV, K.; NESTOROV, V.

Validity range and way of application for the method of determining height distribution of electron density in the ionospheric layer. (Abstract) Radiotekhnika i Elektronika, Vol. 11, No. 8, 1966, pp. 1400-1401.

1. The method is applicable to the determination of the height distribution of electron density in the ionospheric layer.

NESTOROV, G.; SERAFIMOV, S.

Equivalent electronic density of the plasma surface.
Doklady BAN 17 no.1:26-28 '67.

1. Predstavleno avtor. i. Popystenovym [Krasnopol, I.] v Redaktsionnyy kolegiy, "Doklady Bolgarskoy Akademii nauk."

ILLEGIBLE

SERAFIMOV, K.; NESTOROV, G.

Time variations of the equivalent elektron density
in the ionospheric region. Doklady BAN 17 no.2:125-
127 '64.

1. Submitted by Academician L. Krastanov [Krustanov, L.],
Responsible Editor and Member of the Board of Editors,
"Doklady Bolgarskoy akademii nauk".

NESTOROV, G.; KRAKHIVSKI, N. Krivsky, L. I.; LITVINOV, V.

Ionospheric anomalies caused by solar flares and solar wind from a
corpuscular flow. Radiotekhnika i elektronika. 1964, no. 9, p. 1811-1814.
aer. 4 no. 6:1959-1963. 30 p. (MIRA 18:1)

1. Geofizicheskii institut Bolgarskoy Ak. Nauk i Astronomicheskii
institut Chukhlovskoy Akad. Nauk, Sofiya.

L 16207-35

ACCESSION NR: AP3000520

For receiving the reflected waves must be equipped with receivers of equivalent frequencies. This method is suitable for studying drifts in ionosphere with low electron concentrations. Three transmitters in the Sofia Observatory have receivers in Bucharest operating on a frequency of 834 kc, at Varna on 1124 kc, and at Pleven on 593 kc. Observations and from these stations were processed and the drift velocities and directions for the interval from 6 p.m. to midnight were obtained. The more probable velocities are from 20 to 40 m/sec, with two maxima and one minimum. The direction of motion varies greatly. In the winter the southwest direction is predominant and in the spring, the northwest direction. Orig. art. has: 7 figures.

ASSOCIATION: Geofizicheski Institut Bolgarskoy akademii nauk,
Sofiya (Geophysical Institute, Bulgarian Academy of Sciences)

SUBMITTED: 26Jun64

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1. IDENTIFICATION: TMS(1)/TMS(y)/EEO-1/EEO(t)/EAA(h)/TGO Pb-5/P1-1/Po-1/Tq-1/
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ACQUISITION NO: A13009520 5/0203/64/004/006/1052/1058

Author: Edward Henry D. Denton, C.

TITLE: A new method for the investigation of motions in the nocturnal ionospheric E layer

SOURCE: *Gromozhdeniye i aeronomiya*, v. 4, no. 6, 1964, 1052-1058

100% FACTS: ionospheric drift nocturnal, 2 layer, terrestrial wave,
 space wave, interaural attenuation, transmitter, receiver,
 electron concentration

ABSTRACT: A new method for investigating drift motions in the noc-
urnal E layer of the ionosphere is developed. The ground wave is
eliminated by an antenna of special structure used to record the
fluctuations of the signal. This procedure eliminates at-
tenuation due to interference between the ground and space waves and
records only the space wave reflected from the ionosphere. Velocities
and directions of drifts are functions of the height. It is more con-
venient to record the intensity of reflected waves of three transmit-
ters sent from the same point with different frequencies. The places

End 1/2

ILLEGIBLE

W. J. G. M. VAN DER MEULEN

The amount of the leaching of the absorption lines within the D-layer is subject to seasonal variations within the 70 (summer) and 10 km (winter) limits. Orig. art. in *J. Geophys. Res.* 69, 1964, 5193-5200.

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1997

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1991a). The absorption in the π - π^* light π layer and the π -region absorption at sunrise
 1991b). *Journal of Atmospheric Science*, v. 48, no. 2, 1991, 397-406.

type 1A2B, surface E layer, absorption 2.2, type 1A2B, ionospheric absorption, E layer.
141000

[illegible]

NESTOROV, G.; SERAFIMOV, K.

Influence of altitude variations, number of collisions, and operating frequency on the equivalent concentration of electrons in the D-region. Doklady BAN 16 no. 8:817-820 '63.

1. Vorgelegt von Akademiemitglied L. Krastanov [Krustanov, L.].
Otveta'tvennyy redaktor, "Doklady Bolgarskoy Akademii nauk".

NESTOROV, G.

Correlation between the ionization of night E-layer, the geomagnetic activity, and the cosmic rays in medium geomagnetic latitudes. Doklady BAN 16 no. 4: 357-360 1963.

1. Vorgelegt von Akademienmitglied L. Krastanov [Krastanov, L.].

NESTOROV, G.

A new method for determining the fadingless zone of the radio broadcasting transmitters of medium and long waves. Doklady BAN 16 no.3: 257-259 '63.

1. Vorgelegt von Akademienmitglied L. Krustanov [Krustanov, L.].

NESTOROV, Georgi, st. n. sutr.

International Year of the Oalm Sun. Priroda Bulg 12
no. 6:11-15 N-D '63.

1. Member of the Board of Editors, of "Priroda".

SERAFIMOV, K.; NESTOROV, G.

Method for determining the electron density profile in the D region
of the ionosphere. Geomag. i aer. 3 no.6:1059-1064 N-D '63.
(MIRA 16:12)

1. Geofizicheskiy institut AN Bolgarskoy Narodnoy Respubliki.

NESTOROV, G.; TAUBENKHAYM, Yu. [Taubenheim, J.]

Investigation of the E layer of the ionosphere during the solar
eclipse of February 15, 1961. Geomag. i aer. 3 no.2:277-283
Mr-Apr '63. (MIRA 17:2)

1. Akademiya nauk Bolgarskoy Narodnoy Respubliki i Institut
Genrikha Gertsy, Germanskaya Demokraticheskaya Respublika.

ACCESSION NR: AT4013669

D region and of the E layer. The known equations for deviation absorption and non-deviation absorption had to be modified in the frequency range under study owing to the significant influence of the earth's magnetic field on the parameters of propagation. A modified formula (Formula 1 of the Enclosure) is suggested for non-deviation absorption in the D region, which takes into account the effective gyro-frequency of plasma (Formula 2 of the Enclosure), as well as the equivalent frequency of individual wave routes (Formula 3 of the Enclosure). The derived equations (Formulas 1 and 4 of the Enclosure) and the approximation (Formula 2) reflect with fair accuracy the real process of absorption in the lower ionosphere and afford the opportunity to construct the distribution curve of electron density in a vertical plane (the profile) of the D region and the lower part of the E layer, regarding which available information is very meager. Good agreement in principle with the observations of other investigators is noted in respect of the obtained frequency dependence of absorption, as well as for the profiles constructed of $N(z)_k^D$ and $N(z)_D^T$. "I express my gratitude to Prof. Lauter of the Kuhlungsborn ionospheric observatory and to Dr Taubenheim of the Heinrich Hertz Institute in Berlin for the data so kindly made available from absorption measurements at General Toshevo and Neseb'r." Orig. art. has: 16 formulas, 3 figures, and 1 table.

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